LISTING OF CLAIMS

1. (currently amended) A system for printing images on a substrate, comprising:

a) an ink-jet ink including:

i) a liquid vehicle including water, and from 5 wt% to 35 wt% total organic solvent content, wherein the organic solvent content includes at least three of 1,5-pentanediol, ethoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;

ii) from 0.1 wt% to 6 wt% of acid-functionalized pigment solids;

iii) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw.

b) a printhead loaded with the ink-jet ink and configured for jetting the ink-jet ink at a firing frequency from 12 kHz to 25 kHz, and wherein the frequency response range for the ink-jet ink is such that the ink-jet ink is jettable at from 3 kHz to 25 kHz.

2. (previously presented) The system of claim 1, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μm.

3. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.

4. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of a salt selected from the group consisting of ammonium salt, sodium salt, potassium salt, and lithium salt.

5. (previously presented) The system of claim 4, wherein the ammonium salt is ammonium benzoate.

6. (previously presented) The system of claim 1, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.

7. (cancelled)

8. (previously presented) The system of claim 1, wherein the printhead is configured for jetting the ink-jet ink at a drop volume from about 10 pL to 20 pL.

9. (previously presented) The system of claim 1, wherein the ink-jet ink further comprises a trishydroxymethylaminomethane buffer.

10. (cancelled)

11. (currently amended) A method of rapidly printing an ink-jet image, comprising ink-jetting an ink-jet ink onto a media substrate at a firing frequency from 12 kHz to 25 kHz, said ink-jet ink comprising:

a) a liquid vehicle including water, and from 5 wt% to 35 wt% total organic solvent content, wherein the organic solvent content includes at least three of 1,5-pentanediol, ethyoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;

b) from 0.01 wt% to 6 wt% of acid-functionalized pigment solids;

c) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw_a

wherein the frequency response range for the ink-jet ink is such that the ink-jet ink is jettable at from 3 kHz to 25 kHz.

12. (previously presented) The method of claim 11, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μm.

13. (previously presented) The method of claim 11, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.

14. (previously presented) The method of claim 11, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of an ammonium salt.

15. (previously presented) The method of claim 14, wherein the ammonium salt is ammonium benzoate.

16. (previously presented) The method of claim 11, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.

17. (previously presented) The method of claim 11, wherein the firing frequency is from 15 kHz to 25 kHz.

18. (previously presented) The method of claim 11, wherein ink-jetting step is at a drop volume from about 10 pL to 20 pL.

19 (previously presented) The method of claim 11, wherein the ink-jet ink further includes a trishydroxymethylaminomethane buffer.

20. (cancelled)

21. (currently amended) An ink-jet ink composition, comprising:

a) a liquid vehicle having from 5 wt% to 35 wt% of total organic solvent content, wherein the organic solvent content includes at least three of 1,2-pentanediol, ethoxylated glycerol, 1,2-pyrrolidinone, and 2-methyl-1,3-propanediol;

b) from 0.1 wt% to 6 wt% of acid-functionalized pigment solids;

c) from 0.001 wt% to 6 wt% of styrene-maleic anhydride copolymer, said styrene-maleic anhydride copolymer having a weight average molecular weight from about 400 Mw to 15,000 Mw;

wherein the ink-jet ink composition is reliably jettable at ~~a~~ all firing ~~frequency~~ frequencies ranging from ~~12~~ 3 kHz to 25 kHz.

22. (previously presented) The ink-jet ink composition of claim 21, wherein the acid-functionalized pigment solids have an average size from about 5 nm to about 10 μm.

23. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink further comprises from 0.001 wt% to 0.3 wt% surfactant.

24. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink further comprises from 0.05 wt% to 4 wt% of an ammonium salt.

25. (previously presented) The ink-jet composition of claim 24, wherein the ammonium salt is ammonium benzoate.

26. (previously presented) The ink-jet ink composition of claim 21, wherein an acid precursor used to form the acid-functionalized pigment is selected from the group consisting of para-aminobenzoic acids, isophthalic acids, triacids, and combinations thereof.

27. (cancelled)

28. (previously presented) The ink-jet ink composition of claim 21, wherein the ink-jet ink composition is reliably jettable at a drop volume from about 10 pL to 20 pL.

29. (previously presented) The ink jet ink composition of claim 21, wherein the ink-jet ink further includes a trishydroxymethlyaminomethane buffer.

30. (cancelled)